

## Technical Soil Descriptions

Technical soil descriptions describe the characteristics or properties (physical and chemical) of the soil including the parent material in which it formed. A pedon, a small three-dimensional area of the soil, serves as the reference point for the technical or soil series description. The soil description compares the soil to similar and other nearby soils and also includes a range of important characteristics. The detailed description method follows standards outlined in the Soil Survey Manual and many of the technical terms used in the description are defined in Soil Taxonomy.

### ***Counties with Published Soil Surveys***

Technical soil descriptions are located in the county soil survey descriptive legend.

### ***Counties without Published Soil Surveys***

Technical soil descriptions can be found in adjacent county published soil survey descriptive legends or at our [Official Soil Series Description](#) web site.

*This section includes:*

- **(a) Classification of the soils**

Marion and Ralls Counties, Missouri  
 Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Armstrong-----	AQUERTIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
Belknap-----	AERIC FLUVAQUENTS, COARSE-SILTY, MIXED, ACID, MESIC
Blackoar-----	FLUVAQUENTIC ENDOAQUOLLS, FINE-SILTY, MIXED, MESIC
Blase-----	AQUIC HAPLUDOLLS, CLAYEY OVER LOAMY, MONTMORILLONITIC, MESIC
Calwoods-----	AERIC OCHRAQUALFS, FINE, MONTMORILLONITIC, MESIC
Carlow-----	VERTIC ENDOAQUOLLS, FINE, MONTMORILLONITIC, MESIC
Cedargap-----	Loamy-skeletal, mixed, superactive, mesic Cumulic Hapludolls
Chariton-----	VERTIC ALBAQUALFS, FINE, MONTMORILLONITIC, MESIC
Chequest-----	VERTIC ENDOAQUOLLS, FINE, MONTMORILLONITIC, MESIC
Edina-----	VERTIC ARGIALBOLLS, FINE, MONTMORILLONITIC, MESIC
Fatima-----	FLUVAQUENTIC HAPLUDOLLS, FINE-SILTY, MIXED, MESIC
Gifford-----	VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Gorin-----	AQUERTIC CHROMIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
*Gosport-----	TYPIC DYSTROCHREPTS, FINE, ILLITIC, MESIC
Goss-----	Clayey-skeletal, mixed, active, mesic Typic Paleudalfs
Landes-----	FLUVENTIC HAPLUDOLLS, COARSE-LOAMY, MIXED, MESIC
Leonard-----	VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Lindley-----	TYPIC HAPLUDALFS, FINE-LOAMY, MIXED, MESIC
Marion-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Menfro-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Mexico-----	AERIC VERTIC EPIAQUALFS, FINE, MONTMORILLONITIC, MESIC
Moniteau-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Orthents-----	ORTHENTS
Putnam-----	VERTIC ALBAQUALFS, FINE, MONTMORILLONITIC, MESIC
Sampsel-----	VERTIC ARGIAQUOLLS, FINE, MONTMORILLONITIC, MESIC
Smileyville-----	MOLLIC ALBAQUALFS, FINE, MONTMORILLONITIC, MESIC
Vigar-----	AQUIC ARGIUOLLS, FINE-LOAMY, MIXED, MESIC
Weller-----	AQUERTIC CHROMIC HAPLUDALFS, FINE, MONTMORILLONITIC, MESIC
Winfield-----	OXYAQUIC HAPLUDALFS, FINE-SILTY, MIXED, MESIC